Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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- 1-54. (canceled)
- 55. (currently amended) [[The]] A tissue matrix of claim 51 comprising placental stem cells, wherein the placental stem cells are CD10⁺, CD29⁺, CD34⁻, CD44⁺, CD45⁻, CD54⁺, CD90⁺, SH2⁺, SH3⁺, and SH4⁺; wherein said placental stem cells are additionally OCT-4⁺, SSEA3⁻ or SSEA4⁻; and wherein said tissue matrix is made by a method comprising seeding human placental stem cells into or onto a tissue matrix, wherein said stem cells are from a human placenta that has been drained of cord blood and perfused to remove residual blood.
- 56. (currently amended) The method of claim 24 A method of making a tissue matrix, comprising seeding human placental stem cells into or onto a tissue matrix, wherein said stem cells are from a human placenta that has been drained of cord blood and perfused to remove residual blood, wherein said placental stem cells are CD34⁻, SSEA3⁻, SSEA4⁻, and OCT-4⁺.
- 57. (currently amended) The method of claim 24 A method of making a tissue matrix, comprising seeding human placental stem cells into or onto a tissue matrix, wherein said stem cells are from a human placenta that has been drained of cord blood and perfused to remove residual blood, wherein said placental stem cells are CD10⁺, CD29⁺, CD34⁻, CD44⁺, CD45⁻, CD54⁺, CD90⁺, SH2⁺, SH3⁺, and SH4⁺; and wherein said placental stem cells are additionally OCT-4⁺, SSEA3⁻ or SSEA4⁻.
- 58. (new) A tissue matrix comprising human placental stem cells, wherein the placental stem cells are CD34⁻, SSEA3⁻, SSEA4⁻, and OCT-4⁺.
- 59. (new) A tissue matrix comprising human placental stem cells, wherein the placental stem cells are CD34⁻, CD10⁺, CD29⁺, CD34⁻, CD44⁺, CD45⁻, CD54⁺, CD90⁺, SH2⁺, SH3⁺, and SH4⁺; and wherein said placental stem cells are additionally OCT-4⁺, SSEA3⁻ or SSEA4⁻.